

ABSTRACT OF THE DISCLOSURE

A small ball is formed at the lower end of a second gold wire that is held and guided by a second capillary.

- 5 The small ball has a diameter approximately equal to that of a first gold wire. The small ball is bonded to an electrode on an optical device. The second gold wire is separated from the small ball. A large ball is formed at the lower end of the first gold wire that is held and
- 10 guided by a first capillary. The large ball is bonded to a wiring pattern on an external wiring substrate. The first capillary is moved upward, and then, moved toward the small ball in the horizontal direction. A bonding wire is formed with the first gold wire connecting with the large ball.
- 15 The first gold wire is bonded to the small ball by stitch bonding, and then, separated from the small ball.